



Introduction and Delta-CDR Process

Prepared by

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<http://ams.nasa.gov>

<http://www.ams02.org>



Welcome

- Welcome to the AMS Delta-CDR
- We are glad that you have come and we will make every effort to get answers to all your questions as soon as possible
- We realize that these late changes are difficult for everyone to deal with, and we assure you that the changes are unavoidable
- Welcome to our review team
 - Steve Porter Chairman
 - Rod Jones ISS Rep.
 - Joel Sills STS Rep.
 - Mike Surber Safety Rep.
 - Wade Bostick S&MA Rep.
 - Barbara Miller Crew Rep.
 - Greg Humble MOD Rep.
 - Rebecca Grimaldi POIC Rep.
 - Joe Delai KSC Rep.
 - Jay Leggett Engineering Rep.
 - Mike Gilbert NESC Ex-Officio Member



Purpose of Delta-CDR

- The purpose of this meeting is for a NASA review of the AMS-02 payload changes related to a change-out of the AMS superconducting magnet to a permanent magnet
- It includes
 - Systems Implementation Approach
 - AMS Payload Configuration
 - Mechanical/Avionics
 - Design Analyses/Documentation
 - Safety, Reliability and Quality Assurance
- Goal of the Delta-CDR is to gain NASA concurrence to proceed with the design as planned
- Note: This is not a design review of the AMS experiment or science. Any RIDs written against the AMS science will be disapproved at the pre-board screening, as this is not a NASA responsibility



Points of Contact

- Systems Engineering
 - Phil Mott – 281-461-5712
- Structural Design
 - Joe Kastelic – 281-461-5705
- Structural Analysis and Certification
 - Carl Lauritzen – 281-461-5586
- Thermal Design, Analysis and Testing
 - Craig Clark – 281-461-5378
- Avionics Design, Analysis and Testing
 - Tim Urban – 281-461-5702
- Flight and Ground Safety
 - Leland Hill (Flight) – 281-461-5701
 - Eric Harvey (Ground) – 281-461-5509
- Flight and Ground Operations
 - Tim Urban – 281-461-5702
- Schedules and Integration Activities
 - John Heilig – 281-461-5724



Delta-CDR Procedure

- Data is available on AMS website:
 - http://ams-02project.jsc.nasa.gov/life_cycle/Delta_CDR_May2010/DeltaCDR_May2010.htm
- RID form is available at this site, and is also available at RID table at the back of the room
- Participation/Responsibilities
 - Discuss technical issues and submit RIDs if discrepancy/disagreement still exists
 - All RIDs must be submitted to RID control
 - Team Leaders will review, coordinate and sign RIDs
 - Team Leaders will present RIDs to pre-board screening review
 - Once approved through pre-board, final list of RIDs and proposed responses will be presented to board for final approval
 - Summary will be provided to entire review meeting participants



Ground Rules

- AMS Experiment Mission Success is not subject of RIDs, as Mission Success is the responsibility of DOE and the AMS Collaboration
- AMS safety issues are acceptable RIDs
- The team understands that this modification is very late relative to the launch date, so every effort is being made to minimize ALL other changes to the AMS systems and operations so as to limit the changes to already approved documentation.